

OAIPH Research

Years of Lost Life: Firearm Fatalities

2009 – 2018



Ohio Alliance for Innovation in Population Health

The Ohio Alliance for Innovation in Population Health is a collaborative effort initiated by the Ohio University College of Health Sciences and Professions and University of Toledo College of Health and Human Services. By aligning the resources and expertise of state universities, researchers, hospital associations, healthcare providers and public health experts, the alliance works to solve the most complex and pressing health problems in the state.



Project Summary and Key Findings

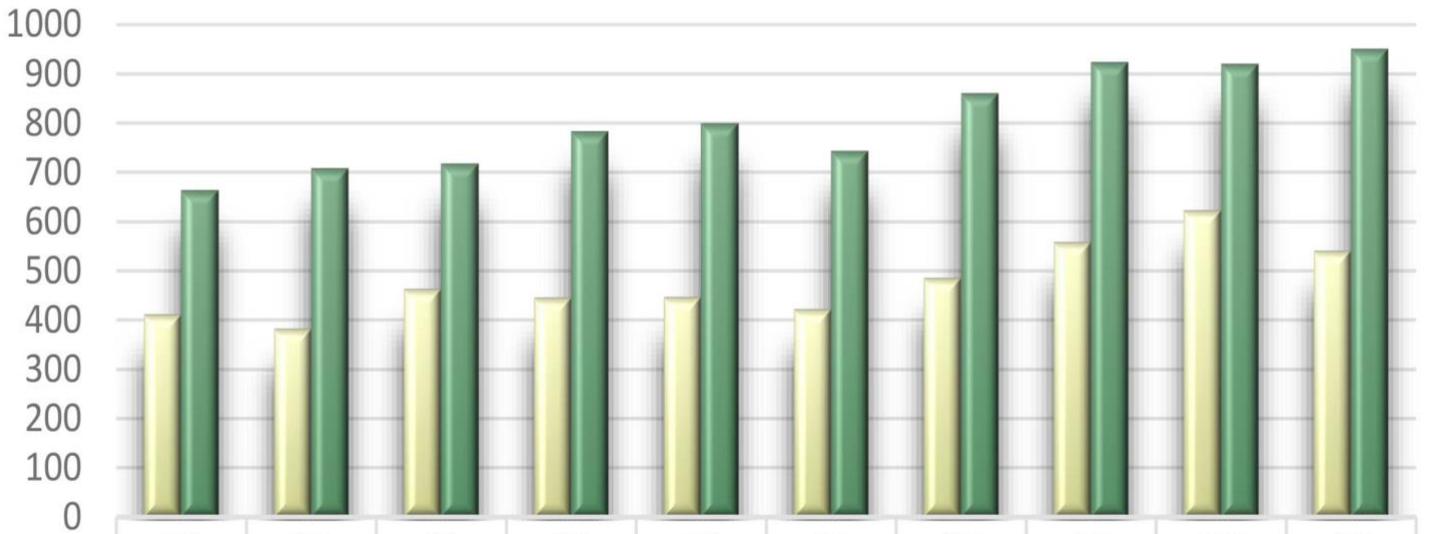
The Ohio Alliance for Innovation in Population Health has reviewed Ohio firearm fatality data for the decade beginning January 1st, 2009 and ending December 31st, 2018. The goal of the study was to determine the extent to which firearm related fatalities contributed to premature mortality in Ohio for the ten-year period. For the purposes of this study, firearm fatalities were reported by homicide, suicide and accident.

Final data from the Ohio Department of Health, Bureau of Vital Statistics, Ohio Death Certificate file from 2009 through 2017 and preliminary for 2018 data were used for the analysis. Years of Life Lost (YLL) were calculated for each decedent by subtracting the age of death from the expected years of life. This calculation is based on period life tables produced by the Social Security Administration.

Key Findings

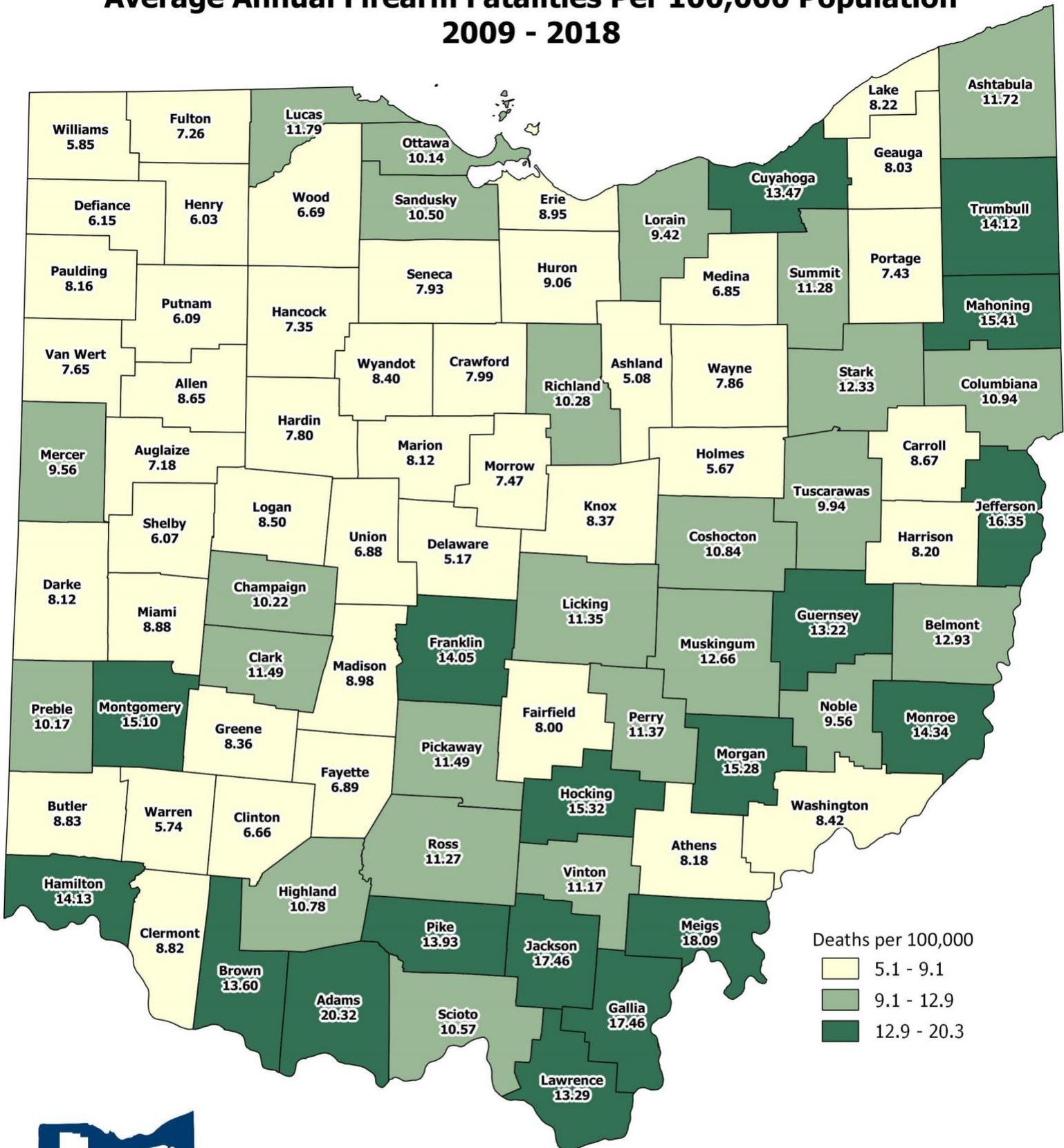
1. There were 484,122 years of life lost (YLL) accounted for by 13,001 firearm fatalities from 2009 through 2018.
2. In 2017, the peak year for firearm fatalities, Ohio experienced 59,515 years of life lost due to firearm fatalities. For purposes of comparison, there were 41,161 YLL for the baseline year of 2009.
3. In 2017 firearm fatalities had the effect of lowering the life span of an average Ohioan by .44 years.
4. Rural counties experienced the largest increase in YLL between the baseline and final year (51%), followed by metropolitan counties (34%), suburban counties (30%) and Appalachian counties (21%).
5. Overall, males accounted for 84% of YLL for the ten-year period, but females experienced a larger increase between the baseline and final year (44%) than males (32%).
6. The highest percentage of firearm related YLL was accounted for by Ohioans between the ages of 20 and 29 (34%), followed by Ohioans between the ages of 30 and 39 (20%).
7. Ohioans older than 60 recorded the highest rate of increase in firearm related YLL (80%).
8. White Ohioans accounted for 59% of firearm fatality YLL, followed by African American Ohioans (38%) and Other (4%). The rate of increase between the baseline year and final year was highest for other minorities (352%), followed by African Americans (33%) and Whites (32%).
9. Suicides accounted for 52% of all years of life lost due to firearm fatalities for the period, followed by homicides (46%), and accidents (1%).

Ohio Firearm Fatalities for Suicide and Homicide



■ Homicide	412	382	463	445	447	422	485	558	622	541
■ Suicide	663	708	717	783	799	743	860	924	920	950

Average Annual Firearm Fatalities Per 100,000 Population 2009 - 2018



Ohio Alliance
for Innovation in
Population Health

Ohio Department of Health, Bureau of Vital Statistics, Ohio Death Certificate File. These data points were provided by the Ohio Department of Health. The Department specifically disclaims responsibility for any analyses, interpretations or conclusions.

TABLE 1: FIREARM DEATHS BY YEAR AND REGION

	REGION					Total
	Other	App	Metro	Rural	Suburban	
2009	52	147	633	100	155	1,087
2010	44	145	653	102	153	1,097
2011	61	155	694	139	162	1,211
2012	47	205	674	119	192	1,237
2013	55	190	728	121	173	1,267
2014	48	182	673	119	161	1,183
2015	82	173	770	136	199	1,360
2016	66	171	877	159	221	1,494
2017	84	157	931	156	233	1,561
2018	77	208	850	151	218	1,504
Total	616	1,733	7,483	1,302	1,867	13,001

TABLE 1B: FIREARM DEATHS BY YEAR AND REGION

	REGION					Total
	Other	App	Metro	Rural	Suburban	
2009	4.80%	13.50%	58.20%	9.20%	14.30%	100.00%
2010	4.00%	13.20%	59.50%	9.30%	13.90%	100.00%
2011	5.00%	12.80%	57.30%	11.50%	13.40%	100.00%
2012	3.80%	16.60%	54.50%	9.60%	15.50%	100.00%
2013	4.30%	15.00%	57.50%	9.60%	13.70%	100.00%
2014	4.10%	15.40%	56.90%	10.10%	13.60%	100.00%
2015	6.00%	12.70%	56.60%	10.00%	14.60%	100.00%
2016	4.40%	11.40%	58.70%	10.60%	14.80%	100.00%
2017	5.40%	10.10%	59.60%	10.00%	14.90%	100.00%
2018	5.10%	13.80%	56.50%	10.00%	14.50%	100.00%
Total	4.70%	13.30%	57.60%	10.00%	14.40%	100.00%

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TABLE 2: FIREARM DEATHS BY YEAR AND GENDER

	GENDER		Total
	FEMALE	MALE	
2009	155	932	1,087
2010	143	954	1,097
2011	168	1,032	1,200
2012	187	1,042	1,229
2013	172	1,089	1,261
2014	152	1,029	1,181
2015	197	1,163	1,360
2016	218	1,276	1,494
2017	214	1,347	1,561
2018	220	1,284	1,504
Total	1,826	11,148	12,974

TABLE 2B: FIREARM DEATHS BY YEAR AND GENDER

	GENDER		Total
	FEMALE	MALE	
2009	14.30%	85.70%	100.00%
2010	13.00%	87.00%	100.00%
2011	14.00%	86.00%	100.00%
2012	15.20%	84.80%	100.00%
2013	13.60%	86.40%	100.00%
2014	12.90%	87.10%	100.00%
2015	14.50%	85.50%	100.00%
2016	14.60%	85.40%	100.00%
2017	13.70%	86.30%	100.00%
2018	14.60%	85.40%	100.00%
Total	14.10%	85.90%	100.00%

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TABLE 3: FIREARM DEATHS BY YEAR AND AGE COHORT

	AGE COHORT							Total
	14 AND UNDER	15 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60+	
2009	21	80	239	181	176	186	204	1,087
2010	8	63	276	181	185	170	214	1,097
2011	9	96	285	196	183	198	233	1,200
2012	18	92	258	197	184	205	275	1,229
2013	15	77	298	208	188	191	284	1,261
2014	29	58	287	193	160	164	290	1,181
2015	15	104	316	245	179	208	293	1,360
2016	20	99	381	225	210	226	333	1,494
2017	18	116	406	269	213	219	320	1,561
2018	23	110	341	236	209	219	366	1,504
Total	176	895	3,087	2,131	1,887	1,986	2,812	12,974

TABLE 3B: FIREARM DEATHS BY YEAR AND AGE COHORT

	AGE COHORT							Total
	14 AND UNDER	15 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60+	
2009	1.90%	7.40%	22.00%	16.70%	16.20%	17.10%	18.80%	100.00%
2010	0.70%	5.70%	25.20%	16.50%	16.90%	15.50%	19.50%	100.00%
2011	0.80%	8.00%	23.80%	16.30%	15.30%	16.50%	19.40%	100.00%
2012	1.50%	7.50%	21.00%	16.00%	15.00%	16.70%	22.40%	100.00%
2013	1.20%	6.10%	23.60%	16.50%	14.90%	15.10%	22.50%	100.00%
2014	2.50%	4.90%	24.30%	16.30%	13.50%	13.90%	24.60%	100.00%
2015	1.10%	7.60%	23.20%	18.00%	13.20%	15.30%	21.50%	100.00%
2016	1.30%	6.60%	25.50%	15.10%	14.10%	15.10%	22.30%	100.00%
2017	1.20%	7.40%	26.00%	17.20%	13.60%	14.00%	20.50%	100.00%
2018	1.50%	7.30%	22.70%	15.70%	13.90%	14.60%	24.30%	100.00%
Total	1.40%	6.90%	23.80%	16.40%	14.50%	15.30%	21.70%	100.00%

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TABLE 4: FIREARM DEATHS BY YEAR AND AGE COHORT

	RACE CATEGORY			Total
	WHITE	BLACK	OTHER	
2009	758	322	7	1,087
2010	767	310	20	1,097
2011	803	361	47	1,211
2012	828	336	73	1,237
2013	859	367	41	1,267
2014	788	342	53	1,183
2015	888	379	93	1,360
2016	1,013	453	28	1,494
2017	997	510	54	1,561
2018	1,040	437	27	1,504
Total	8,741	3,817	443	13,001

TABLE 4B: FIREARM DEATHS BY YEAR AND AGE COHORT

	RACE CATEGORY			Total
	WHITE	BLACK	OTHER	
2009	69.70%	29.60%	0.60%	100.00%
2010	69.90%	28.30%	1.80%	100.00%
2011	66.30%	29.80%	3.90%	100.00%
2012	66.90%	27.20%	5.90%	100.00%
2013	67.80%	29.00%	3.20%	100.00%
2014	66.60%	28.90%	4.50%	100.00%
2015	65.30%	27.90%	6.80%	100.00%
2016	67.80%	30.30%	1.90%	100.00%
2017	63.90%	32.70%	3.50%	100.00%
2018	69.10%	29.10%	1.80%	100.00%
Total	67.20%	29.40%	3.40%	100.00%

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TABLE 5: FIREARM DEATHS BY YEAR AND ACCIDENTS

	ACCIDENTS		Total
	NO	YES	
2009	1,075	12	1,087
2010	1,090	7	1,097
2011	1,180	31	1,211
2012	1,228	9	1,237
2013	1,246	21	1,267
2014	1,165	18	1,183
2015	1,345	15	1,360
2016	1,482	12	1,494
2017	1,542	19	1,561
2018	1,491	13	1,504
Total	12,844	157	13,001

TABLE 5B: FIREARM DEATHS BY YEAR AND ACCIDENTS

	ACCIDENTS		Total
	NO	YES	
2009	98.90%	1.10%	100.00%
2010	99.40%	0.60%	100.00%
2011	97.40%	2.60%	100.00%
2012	99.30%	0.70%	100.00%
2013	98.30%	1.70%	100.00%
2014	98.50%	1.50%	100.00%
2015	98.90%	1.10%	100.00%
2016	99.20%	0.80%	100.00%
2017	98.80%	1.20%	100.00%
2018	99.10%	0.90%	100.00%
Total	98.80%	1.20%	100.00%

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TABLE 6: FIREARM DEATHS BY YEAR AND HOMICIDES

	HOMICIDE		Total
	NO	YES	
2009	675	412	1,087
2010	715	382	1,097
2011	748	463	1,211
2012	792	445	1,237
2013	820	447	1,267
2014	761	422	1,183
2015	875	485	1,360
2016	936	558	1,494
2017	939	622	1,561
2018	963	541	1,504
Total	8,224	4,777	13,001

TABLE 6B: FIREARM DEATHS BY YEAR AND HOMICIDES

	HOMICIDE		Total
	NO	YES	
2009	62.10%	37.90%	100.00%
2010	65.20%	34.80%	100.00%
2011	61.80%	38.20%	100.00%
2012	64.00%	36.00%	100.00%
2013	64.70%	35.30%	100.00%
2014	64.30%	35.70%	100.00%
2015	64.30%	35.70%	100.00%
2016	62.70%	37.30%	100.00%
2017	60.20%	39.80%	100.00%
2018	64.00%	36.00%	100.00%
Total	63.30%	36.70%	100.00%

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TABLE 7: FIREARM DEATHS BY YEAR AND SUICIDES

	SUICIDE		Total
	NO	YES	
2009	424	663	1,087
2010	389	708	1,097
2011	494	717	1,211
2012	454	783	1,237
2013	468	799	1,267
2014	440	743	1,183
2015	500	860	1,360
2016	570	924	1,494
2017	641	920	1,561
2018	554	950	1,504
Total	4,934	8,067	13,001

TABLE 7B: FIREARM DEATHS BY YEAR AND SUICIDES

	SUICIDE		Total
	NO	YES	
2009	39.00%	61.00%	100.00%
2010	35.50%	64.50%	100.00%
2011	40.80%	59.20%	100.00%
2012	36.70%	63.30%	100.00%
2013	36.90%	63.10%	100.00%
2014	37.20%	62.80%	100.00%
2015	36.80%	63.20%	100.00%
2016	38.20%	61.80%	100.00%
2017	41.10%	58.90%	100.00%
2018	36.80%	63.20%	100.00%
Total	38.00%	62.00%	100.00%

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TABLE 8: YEARS OF LIFE LOST - FIREARM DEATHS BY YEAR AND REGION

	REGION					Total
	Other	App	Metro	Rural	Suburban	
	Sum	Sum	Sum	Sum	Sum	Sum
2009	1,991	5,186	25,348	3,125	5,510	41,161
2010	1,794	4,897	26,099	3,306	5,084	41,181
2011	2,396	4,950	27,584	4,950	5,723	45,602
2012	1,678	6,045	26,891	3,926	6,305	44,844
2013	2,024	6,011	29,278	3,641	5,579	46,534
2014	1,577	5,782	26,932	3,370	5,631	43,293
2015	2,876	5,478	30,911	4,818	6,839	50,922
2016	2,307	5,777	35,614	5,324	6,896	55,917
2017	3,319	5,145	38,227	4,968	7,856	59,515
2018	3,076	6,263	33,936	4,709	7,170	55,154
Total	23,039	55,534	300,820	42,136	62,594	484,122

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**TABLE 9: YEARS OF LIFE LOST -
FIREARM DEATHS BY YEAR AND
GENDER**

	GENDER		
	FEMALE	MALE	Total
	Sum	Sum	Sum
2009	6,392	34,769	41,161
2010	6,098	35,083	41,181
2011	7,157	38,445	45,602
2012	7,659	37,186	44,844
2013	7,112	39,422	46,534
2014	6,419	36,874	43,293
2015	8,089	42,833	50,922
2016	9,078	46,839	55,917
2017	8,801	50,713	59,515
2018	9,177	45,977	55,154
Total	75,981	408,141	484,122

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TABLE 10: YEARS OF LIFE LOST - FIREARM DEATHS BY YEAR AND AGE

	AGE COHORT							Total
	14 AND UNDER	15 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60+	
	Sum	Sum	Sum	Sum	Sum	Sum	Sum	
2009	1,515	4,777	12,809	8,030	6,191	4,993	2,846	41,161
2010	567	3,767	14,838	8,065	6,516	4,554	2,874	41,181
2011	638	5,815	15,358	8,733	6,453	5,274	3,331	45,602
2012	1,251	5,538	13,798	8,729	6,502	5,439	3,588	44,844
2013	1,010	4,610	16,081	9,260	6,589	5,068	3,916	46,534
2014	1,942	3,475	15,440	8,590	5,586	4,345	3,915	43,293
2015	1,052	6,255	16,857	11,005	6,324	5,516	3,911	50,922
2016	1,411	5,976	20,435	9,996	7,381	5,925	4,793	55,917
2017	1,186	6,974	21,793	12,021	7,514	5,810	4,218	59,515
2018	1,574	6,620	18,280	10,481	7,352	5,711	5,136	55,154
Total	12,146	53,806	165,688	94,910	66,408	52,636	38,528	484,122

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**TABLE 11: YEARS OF LIFE LOST - FIREARM DEATHS
BY YEAR AND RACE**

	RACE CATEGORY			
	WHITE	BLACK	OTHER	Total
	Sum	Sum	Sum	Sum
2009	25,561	15,342	257	41,161
2010	25,433	14,874	873	41,181
2011	26,552	17,320	1,730	45,602
2012	26,279	16,042	2,524	44,844
2013	27,393	17,776	1,365	46,534
2014	24,779	16,415	2,099	43,293
2015	29,041	17,947	3,934	50,922
2016	32,991	21,634	1,292	55,917
2017	32,897	24,347	2,270	59,515
2018	33,643	20,328	1,183	55,154
Total	284,570	182,025	17,528	484,122

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**TABLE 12: YEARS OF LIFE LOST -
FIREARM DEATHS BY YEAR AND
ACCIDENTS**

	ACCIDENTS		
	NO	YES	Total
	Sum	Sum	Sum
2009	40,604	557	41,161
2010	40,843	338	41,181
2011	44,412	1,190	45,602
2012	44,509	335	44,844
2013	45,622	911	46,534
2014	42,529	764	43,293
2015	50,218	703	50,922
2016	55,477	440	55,917
2017	58,729	786	59,515
2018	54,553	601	55,154
Total	477,498	6,625	484,122

Ohio Department of Health, Bureau of Vital Statistics, Ohio Death Certificate File. These data points were provided by the Ohio Department of Health. The Department specifically disclaims responsibility for any analyses, interpretations or conclusions.

**TABLE 13: YEARS OF LIFE LOST -
FIREARM DEATHS BY YEAR AND
HOMICIDES**

	HOMICIDES		
	NO	YES	Total
	Sum	Sum	Sum
2009	21,771	19,390	41,161
2010	23,281	17,899	41,181
2011	24,175	21,428	45,602
2012	23,934	20,910	44,844
2013	25,084	21,449	46,534
2014	23,398	19,895	43,293
2015	28,260	22,662	50,922
2016	29,854	26,063	55,917
2017	30,368	29,147	59,515
2018	30,540	24,614	55,154
Total	260,665	223,457	484,122

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**TABLE 14: YEARS OF LIFE LOST -
FIREARM DEATHS BY YEAR AND
SUICIDES**

	SUICIDES		
	NO	YES	Total
	Sum	Sum	Sum
2009	19,946	21,214	41,161
2010	18,237	22,944	41,181
2011	22,617	22,985	45,602
2012	21,245	23,599	44,844
2013	22,361	24,173	46,534
2014	20,659	22,634	43,293
2015	23,365	27,557	50,922
2016	26,503	29,414	55,917
2017	29,933	29,582	59,515
2018	25,215	29,939	55,154
Total	230,082	254,041	484,122

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TABLE 15: YEARS OF LIFE LOST BY GUN VIOLENCE COUNTY AND HOMICIDE, 2009 - 2018

County	2010 Census	Total Firearm Fatalities	Average Annual Rate per 100,000	Rank Average Annual Rate Per 100,000	Years of life lost (YLL)	Rank Total YLL	Average Annual YLL Rate Per 100,000	Rank Average Annual YLL Rate Per 100,000
Adams	28,550	58	20.32	1	1,926	43	675	1
Allen	106,331	92	8.65	51	3,593	26	338	34
Ashland	53,139	27	5.08	88	868	71	163	88
Ashtabula	101,497	119	11.72	23	3,672	25	362	30
Athens	64,757	53	8.18	59	1,577	50	244	72
Auglaize	45,949	33	7.18	74	1,167	66	254	64
Belmont	70,400	91	12.93	19	2,639	33	375	28
Brown	44,846	61	13.60	15	2,052	39	458	16
Butler	368,130	325	8.83	48	11,847	9	322	40
Carroll	28,836	25	8.67	50	797	76	276	53
Champaign	40,097	41	10.23	37	1,257	62	313	44
Clark	138,333	159	11.49	24	5,889	13	426	19
Clermont	197,363	174	8.82	49	5,546	15	281	48
Clinton	42,040	28	6.66	79	902	69	215	79
Columbiana	107,841	118	10.94	31	3,821	23	354	32
Coshocton	36,901	40	10.84	32	1,235	63	335	35
Crawford	43,784	35	7.99	65	1,169	65	267	58
Cuyahoga	1,280,122	1725	13.48	16	71,261	1	557	9
Darke	52,959	43	8.12	62	1,276	60	241	75
Defiance	39,037	24	6.15	80	776	78	199	82
Delaware	174,214	90	5.17	87	3,310	27	190	85
Erie	77,079	69	8.95	46	1,929	42	250	66
Fairfield	146,156	117	8.01	64	3,888	21	266	59
Fayette	29,030	20	6.89	75	792	77	273	54
Franklin	1,163,414	1635	14.05	13	68,382	2	588	6
Fulton	42,698	31	7.26	73	1,156	67	271	57
Gallia	30,934	54	17.46	4	1,651	47	534	10
Geauga	93,389	75	8.03	63	2,298	36	246	71
Greene	161,573	135	8.36	56	4,585	16	284	47
Guernsey	40,087	53	13.22	18	1,625	49	405	23
Hamilton	802,374	1134	14.13	11	47,545	3	593	5
Hancock	74,782	55	7.35	72	1,857	44	248	69
Hardin	32,058	25	7.80	68	802	74	250	67
Harrison	15,864	13	8.19	58	407	88	257	61

Henry	28,215	17	6.03	83	682	82	242	74
Highland	43,589	47	10.78	33	1,648	48	378	26
Hocking	29,380	45	15.32	7	1,393	54	474	14
Holmes	42,366	24	5.66	86	799	75	189	86
Huron	59,626	54	9.06	44	1,996	40	335	36
Jackson	33,225	58	17.46	3	2,097	38	631	2
Jefferson	69,709	114	16.35	5	3,883	22	557	8
Knox	60,921	51	8.37	55	1,554	51	255	62
Lake	230,041	189	8.22	57	5,584	14	243	73
Lawrence	62,450	83	13.29	17	2,271	37	364	29
Licking	166,492	189	11.35	27	6,266	12	376	27
Logan	45,858	39	8.50	52	1,283	59	280	49
Lorain	301,356	284	9.42	43	10,052	11	334	37
Lucas	441,815	521	11.79	22	20,712	6	469	15
Madison	43,435	39	8.98	45	1,390	55	320	41
Mahoning	238,823	368	15.41	6	14,860	8	622	3
Marion	66,501	54	8.12	61	1,813	45	273	55
Medina	172,332	118	6.85	77	4,014	19	233	76
Meigs	23,770	43	18.09	2	1,325	57	557	7
Mercer	40,814	39	9.56	42	1,293	58	317	42
Miami	102,506	91	8.88	47	2,787	30	272	56
Monroe	14,642	21	14.34	10	606	83	414	22
Montgomery	535,153	808	15.10	9	32,199	4	602	4
Morgan	15,054	23	15.28	8	717	81	476	13
Morrow	34,827	26	7.47	70	902	70	259	60
Muskingum	86,074	109	12.66	20	3,697	24	429	18
Noble	14,645	14	9.56	41	439	86	299	45
Ottawa	41,428	42	10.14	39	1,336	56	323	39
Paulding	19,614	16	8.16	60	492	85	251	65
Perry	36,058	41	11.37	26	1,494	52	414	21
Pickaway	55,698	64	11.49	25	1,980	41	356	31
Pike	28,709	40	13.93	14	1,408	53	490	12
Portage	161,419	120	7.43	71	3,999	20	248	70
Preble	42,270	43	10.17	38	1,264	61	299	46
Putnam	34,499	21	6.09	81	744	80	216	77
Richland	124,475	128	10.28	36	4,048	18	325	38
Ross	78,064	88	11.27	29	2,759	31	353	33
Sandusky	60,944	64	10.50	35	2,355	35	386	24
Scioto	79,499	84	10.57	34	3,006	28	378	25
Seneca	56,745	45	7.93	66	1,177	64	207	81
Shelby	49,423	30	6.07	82	812	72	164	87
Stark	375,586	463	12.33	21	16,320	7	435	17
Summit	541,781	611	11.28	28	22,932	5	423	20

Trumbull	210,312	297	14.12	12	10,457	10	497	11
Tuscarawas	92,582	92	9.94	40	2,568	34	277	52
Union	52,300	36	6.88	76	1,122	68	215	80
Van Wert	28,744	22	7.65	69	803	73	279	50
Vinton	13,435	15	11.16	30	425	87	316	43
Warren	212,693	122	5.74	85	4,101	17	193	84
Washington	61,778	52	8.42	53	1,725	46	279	51
Wayne	114,520	90	7.86	67	2,919	29	255	63
Williams	37,642	22	5.84	84	745	79	198	83
Wood	125,488	84	6.69	78	2,701	32	215	78
Wyandot	22,615	19	8.40	54	563	84	249	68
Total	11,536,504	12,996	888.37		484,016		29,749	
Max	1,280,122	1,725	20.32		71,261		675	
Minimum	13,435	13	5.08		407		163	

Ohio Department of Health, Bureau of Vital Statistics, Ohio Death Certificate File. These data points were provided by the Ohio Department of Health. The Department specifically disclaims responsibility for any analyses, interpretations or conclusions.

Partnerships in the Alliance

- Athens County Health Department • Athens/Hocking/Vinton 317 Board • Buckeye Hills Regional Council • Columbus Springs of Dublin • Genesis Healthcare • Health Recovery Services • Healthcare Collaborative of Greater Columbus • Hocking College • Hopewell Health Centers • Hospital Council of Northwest Ohio • Health Policy Institute of Ohio
- Integrated Services for Behavioral Health InXite • Health Systems • MedMark Treatment Centers • Mercy Health • Molina Healthcare • OhioHealth • Ohio Public Health Association
- **Ohio University** • Portsmouth City Health Department • Public Health Services Council of Ohio • Toledo Lucas County Health Department • United Healthcare • University of Findlay
- **University of Toledo** • Washington/Morgan Community Action Council • Wright State University •

* *Bold type indicates founding organizations of the Ohio Alliance for Innovation in Population Health*

Works Cited

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